

**MULTI-DOMAIN LOW TWIST ANGLE LIQUID CRYSTAL  
CELLS AND METHODS OF PRODUCTION THEREOF**

**Abstract of the Disclosure**

5

Multi-domain liquid crystal cells having twist angles less than 90 degrees, and  
LCDs containing such liquid crystal cells, are provided. Such liquid crystal cells are  
stable, particularly at zero and high fields, and provide wide viewing angles. Also  
provided are methods of using an adjustable particle beam in combination with a  
10 mask to generate multi-domains alignments. Such methods are useful for  
producing liquid crystal cells in general, and for producing the novel multi-domain  
low twist angle liquid crystal cells of the present invention in particular.